

ABSTRACT OF THE DISCLOSURE

A multifunctional surgical rotary instrument with a corrosion resistant wear reducing hard coating, to be used in a surgical dental motor driven handpiece for preparing an osteotomy for implant insertion, combining the functions of six surgical instruments is described. The multifunctional surgical rotary instrument has structural features that provide the functions of a crestal bone height reducer, an osteotomy locator, an osteotomy lateral redirector, osteotomy drill, tapered countersink, and an osteocompressor. These structural features include a dual-lobed single plane tip that remains where the drilling is initiated without wandering, and facilitates the precise location of the osseous implant site. Advantageously, the instrument can save time and cost in the implant procedure.